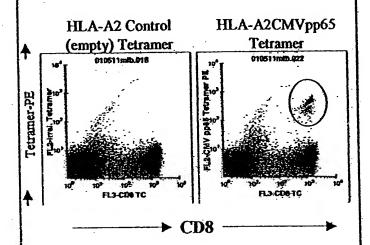
HEMATOPOIETIC STEM CELL TRANSPLANTATION

Inventors: Ronald Berenson et al.

Docket No.: 980034.422

Flow Cytometric Analysis of HLA-A2+ Donor T Cells for HLA-A2 CMVpp65+ T Cells: Day 0 of Culture



Human PBMC were screened for HLA-A2 positivity. HLA-A2+ donors were screened with control (empty) HLA-A2 tetramers and CMVpp65 loaded tetramers. In the donor shown above, approximately 3% of the CD3+CD8+ express TCR specific for HLA-A2 CMVpp65.

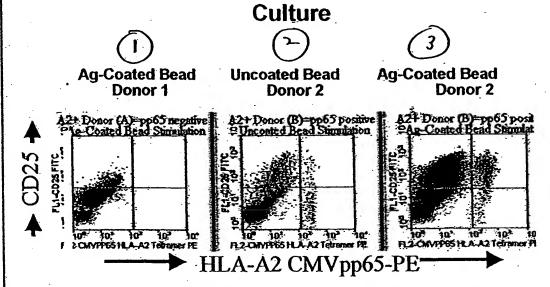
Title: COMPOSITIONS AND METHODS FOR RESTORING IMMUNE REPERTOIRE IN PATIENTS WITH IMMUNOLOGICAL DEFECTS RELATED TO AUTOIMMUNITY AND ORGAN OR

HEMATOPOIETIC STEM CELL TRANSPLANTATION

Inventors: Ronald Berenson et al.

Docket No.: 980034.422

Flow Cytometric Analysis of CD25 Expression on HLA-A2 CMVpp65+ T Cells: Day 10 of



(Tetramer Staining Gated on CD8+ T Cells)

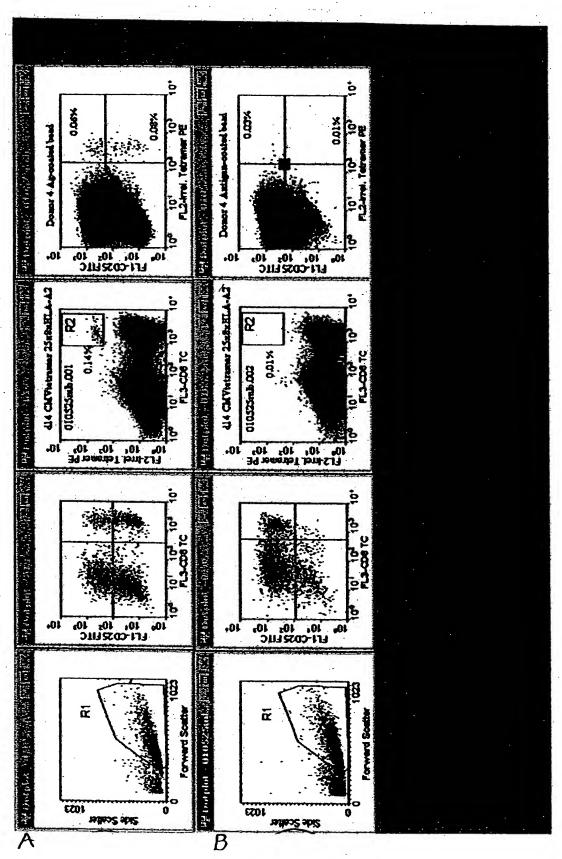
PBMC were activated with CMV antigen (coated onto paramagnetic beads) and by day 10 of culture, many cell are shown to be CD25 (IL-2R) positive, and all of the HLA-A2 CMVpp65+ T cells are expressing high levels of CD25, indicating activation (right panel). Controls include the same donor cells treated with uncoated (antigen-negative) beads (middle panel), or an HLA-A2+ donor (donor 1) that did not show detectable tetramer+ cells at day 0 and was serologically negative for CMV (left panel). These data indicate that tetramer approaches can be effectively used to track antigen-specific T cells and their relative state of activation.

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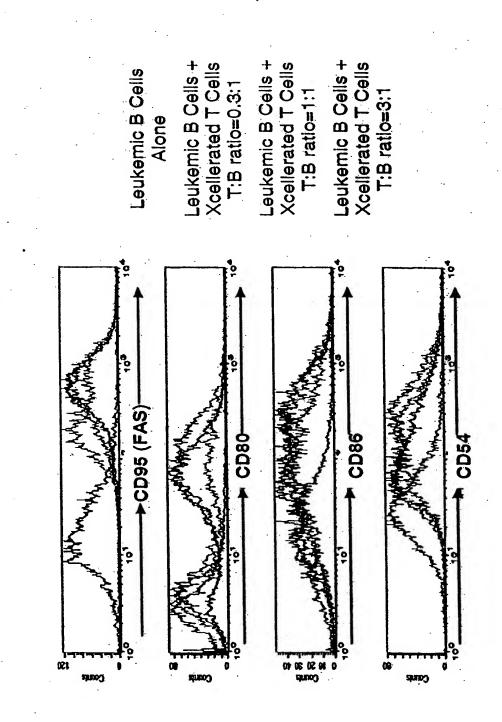
HEMATOPOIETIC STEM CELL TRANSPLANTATION

Inventors: Ronald Berenson et al.

Mixing Xcellerated T Cells with Autologous B-CLL Leukemic Cells Results in the Rapid Upregulation of Key Immunological Effector Molecules

Day 12 Xcellerated T Cells Co-cultured 24 hours with autologous leukemic B Cells

Docket No.: 980034.422



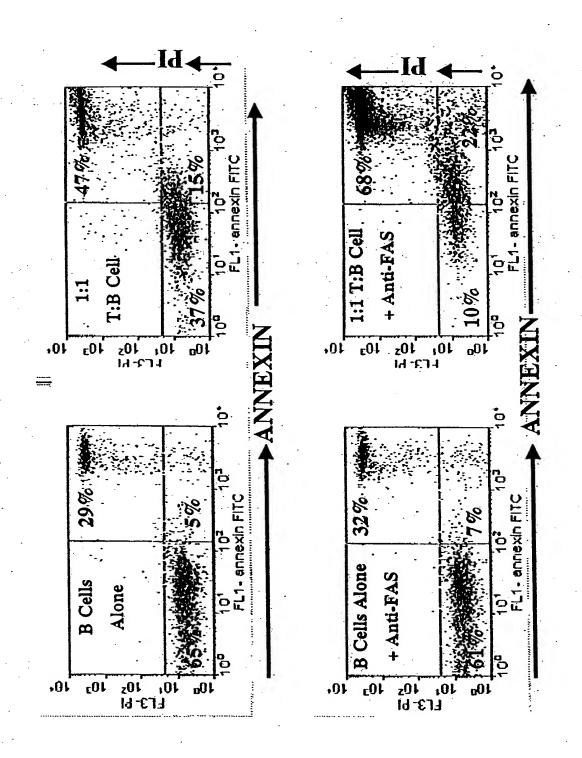
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Express Mail No.: EV348173462US

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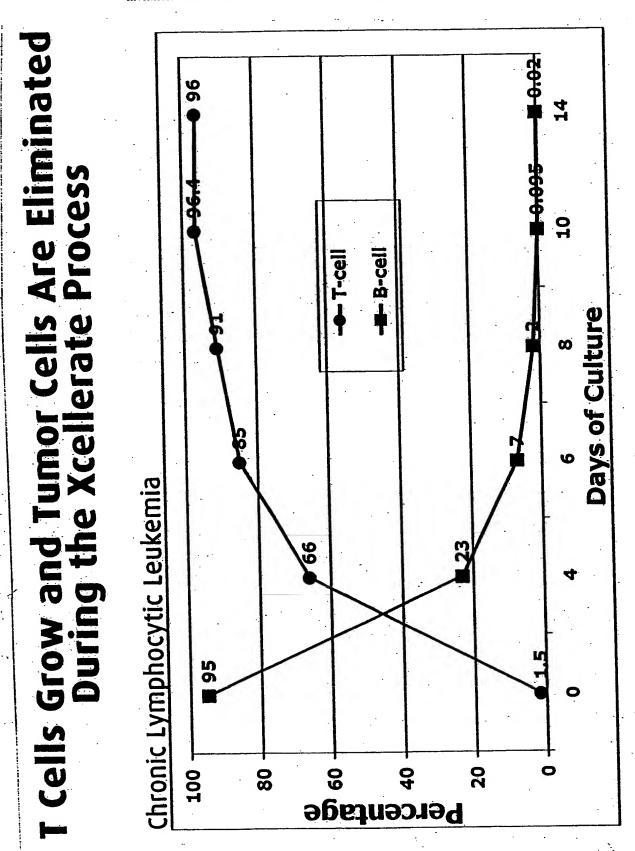
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Inventors: Ronald Berenson et al.



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Inventors: Ronald Berenson et al.

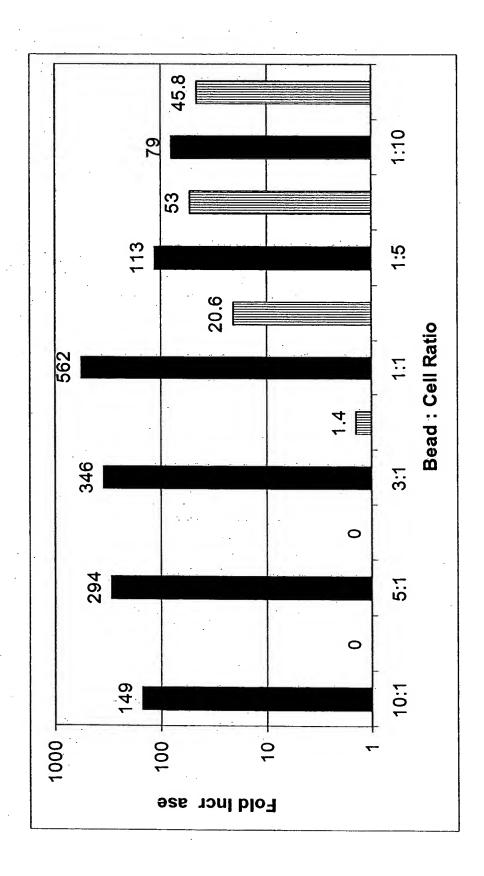


Fig. 7